

ABSTRACT

[0044] A method of manufacturing a luminescent screen assembly for a color cathode-ray tube (CRT). The luminescent screen assembly is formed on an interior surface of a faceplate panel of the CRT. The luminescent screen assembly includes an organic conductive (OC) layer overcoated with an organic photoconductive (OPC) layer. Different color-emitting phosphors are sequentially deposited over portions of the OPC layer and fixed with an appropriate fixative to secure the phosphors to the OPC layer, and then filmed to provide a smooth surface upon which a metal layer is applied. Thereafter, the metallized screen is baked to drive-off organic constituents remaining on the screen from the OPC, OC, filming and overspray layers. The organic constituents are removed from the metallized screen by volatilizing the organic materials such that the volume rate of gaseous organic constituents produced is less than the diffusion rate of such gaseous organic constituents through the metal layer.